

00020



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date:

DEC 19 2002

EPA Region 5 Records Ctr.



222403

Subject:

Review of Region 5 Data for **Himco Dump (Elkhart, IN)**

From:

Marjorie Mattox, Chemist, ESAT/IITRI

Contractor to Region 5 Central Regional Laboratory

Submitted to EPA: *Marjorie Mattox 12-19-02*

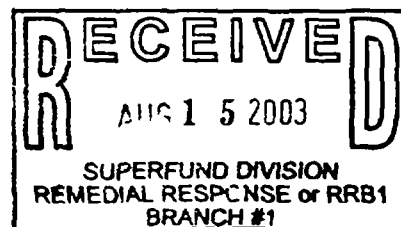
To:

Attached are the results for: **Himco Dump (Elkhart, IN)**

CRL data set number: **E2K0101**

Samples analyzed for: **Cyanide**

Results are reported for sample designations: **E2K0101-02, 04, 05, 06**



Sylvia Griffin
Data Management Coordinator and Date Received

DEC 19, 2002

Date Transmitted: DEC 19, 2002

Please have the U.S. EPA Project Manager/Officer call the CRL Sample Coordinator at 3-7444 for any comments or questions.

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
ML-10C

_____/ /
Received by and Date

Comments:

Method: 335.2 NS (AIG025 dated 03/18/02)

Analyst: M. Mattox *m. mattox*

Date: December 5, 2002 *12-5-02*

TDF: 5-02-081

JOB: 249-0-1476-102-054-001

Task Order: 05-0-02

NARRATIVE

000009

Four (4) water samples from the Himco Dump site (work order E2K0101) were collected on October 31, 2002. The samples were received on November 1, 2002. All samples were received improperly preserved at a pH of 10. EPA was informed and responded telling us to proceed with the analysis.

<u>LIMS ID</u>	<u>CRL ID</u>	<u>Station ID</u>
E2K0101-02	2003SY01R02	Pump Blank
E2K0101-04	2003SY01S04	WT116A
E2K0101-05	2003SY01D04	WT116A
E2K0101-06	2003SY01S05	WT115A

These four samples were assigned to ESAT for cyanide analysis. All samples were analyzed within the 14 day holding time limit. A predistillation check for sulfide and chlorine showed negative results.

S Distillation was initially performed on the Easy Still unit on November 13, 2002 and analyzed later that day as LIMS batch EK21301. The analysis found the matrix duplicate difference to be outside of the ESAT control limit. This data is included at the end of the package for information only. This batch was redistilled and reanalyzed on November 14, 2002 as LIMS batch EK21401. All matrix and instrument QC were acceptable. The LIMS report shows the duplicate RPD as being out of control, however, since the sample results were less than the reporting limit, the duplicate difference was used for QC purposes.

A detailed history of the distillation and analysis can be found in the instrument log book and IITRI log book C31611.

Due to improper preservation and a possible low bias sample results for E2K0101-02, 04, 05, and 06 are flagged "J" and considered estimated.

The sample result for E2K0101-06 shows a result between the method detection limit and reporting limit. Therefore the result is considered estimated and is flagged "J" as stated above.

Samples E2K0101-04/05, appear to be a field duplicate pair showing good correlation.

Analytical final results were stored in the following database files:

R5crl\vol2\iitri-aig\mmattox\LACHET 2(SN 1327)\Cyanide-T\E2K0101\Lachet 2\111402 (Each analytical run is stored as a text file directly from the instrument and also as a Lotus spreadsheet).

Analytical aborted or not used results are stored in the following database file:

R5crl\vol2\iitri-aig\mmattox\LACHET 2(SN 1327)\Cyanide-T\E2K0101\Lachet 2\Data

The narrative, spreadsheet, and QC summary are stored in file folder

R5crl\vol2\iitri-aig\mmattox\Cyanide-T\E2K0101\CN Reports

At this time RLIMS is available and a RLIMS report is submitted for your review. In addition, WordPerfect reports were generated but not included as part of the deliverable.



IIT RESEARCH INSTITUTE

IIT Research Institute ESAT Region 5
536 South Clark Street, Suite 734; Chicago, IL 60605
Telephone (312) 353-8302 Facsimile (312) 353-8307

000010

Superfund, US EPA Region 5
77 West Jackson Boulevard
Chicago IL, 60604

Project: Himco Dump
Project Number: 2003SY01
Project Manager: Howard Pham

Reported:
Dec-17-02 16:50

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
2003SY01R02-Pump Blank	E2K0101-02	Water	Oct-31-02 11:50	Nov-01-02 11:27
2003SY01S04-WT116A	E2K0101-04	Water	Oct-31-02 13:52	Nov-01-02 11:27
2003SY01D04-WT116A	E2K0101-05	Water	Oct-31-02 13:52	Nov-01-02 11:27
2003SY01S05-WT115A	E2K0101-06	Water	Oct-31-02 15:00	Nov-01-02 11:27


Margie Mattox, Chemist

12-17-02

Report Name: E2K0101

Page 1 of 3



IIT RESEARCH INSTITUTE

IIT Research Institute ESAT Region 5

536 South Clark Street, Suite 734; Chicago, IL 60605
Telephone (312) 353-8302 Facsimile (312) 353-8307

000011

Superfund, US EPA Region 5
77 West Jackson Boulevard
Chicago IL, 60604

Project: Himco Dump
Project Number: 2003SY01
Project Manager: Howard Pham

Reported:
Dec-17-02 16:50

Automated Colorimetric Analyses

IITRI - ESAT Contract

2003SY01R02-Pump Blank (E2K0101-02RE1) Water Sampled: Oct-31-02 11:50 Received: Nov-01-02 11:27

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Cyanide (total)	U	J	2	8	ug/L	1	EK21401	Nov-14-0	Nov-14-02

2003SY01S04-WT116A (E2K0101-04RE1) Water Sampled: Oct-31-02 13:52 Received: Nov-01-02 11:27

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Cyanide (total)	U	J	2	8	ug/L	1	EK21401	Nov-14-0	Nov-14-02

2003SY01D04-WT116A (E2K0101-05RE1) Water Sampled: Oct-31-02 13:52 Received: Nov-01-02 11:27

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Cyanide (total)	U	J	2	8	ug/L	1	EK21401	Nov-14-0	Nov-14-02

2003SY01S05-WT115A (E2K0101-06RE1) Water Sampled: Oct-31-02 15:00 Received: Nov-01-02 11:27

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Cyanide (total)	6	J	2	8	ug/L	1	EK21401	Nov-14-0	Nov-14-02

M. Mattox 12-17-02
Margie Mattox, Chemist

Report Name: E2K0101
Page 2 of 3



IIT RESEARCH INSTITUTE

IIT Research Institute ESAT Region 5

536 South Clark Street, Suite 734; Chicago, IL 60605

Telephone (312) 353-8302 Facsimile (312) 353-8307

000012

Superfund, US EPA Region 5
77 West Jackson Boulevard
Chicago IL, 60604

Project: Himco Dump
Project Number: 2003SY01
Project Manager: Howard Pham

Reported:
Dec-17-02 16:50

Notes and Definitions

J The identification of the analyte is acceptable; the reported value is an estimate.
U Not Detected
NR Not Reported

M. Mattox 12-17-02
Margie Mattox, Chemist

Report Name: E2K0101
Page 3 of 3